**Unit 3:**

**Objectives: After successful completion of this unit the student will be able to:**

1. **Explain the principle theories of atomic structure and electron notation.**
2. **Define the various subatomic particles.**
3. **Use the periodic table to find atomic mass, atomic number and so on.**
4. **Identify uses for various isotopes.**
5. **Calculate formula mass.**
6. **Explain the laws of “Conservation of Matter and Energy”**
7. Atoms, Intro
8. Defined
9. Theories
10. Dalton
11. Bohr
12. Rutherford
13. Atoms
14. Subatomic particles
15. Electrons
16. Protons
17. Neutrons
18. Relative electrical charge
19. Structure of the Atom
20. Nucleus
21. Rutherford’s Gold Foil experiment
22. Atomic Number
23. Name
24. Symbol
25. Atomic Number
26. Protons
27. Neutrons
28. Mass Number
29. Finding Numbers of Protons, Neutrons, Electrons
30. Mass Number
31. Define
32. Isotopes of the Elements
33. Defined
34. Examples
35. Hydrogen
36. C
37. Atomic Mass
38. Atomic Mass Unit
39. Defined
40. Nature, Elements, and Isotopes
41. Calculating the Atomic Mass of an Element
    1. Examples